

# Hypothesis Concerning the Mechanisms Underpinning Epilepsy

22 May 2022

Simon Edwards

Research Acceleration Initiative

## Introduction

Epilepsy may be a disorder of excessive electrical capacitance of brain cells caused by an initial heavy metal exposure involving two interacting metals that combine and embed themselves within individual neurons.

## Abstract

If true, the reason seizure activity can be detected up to 15 minutes in advance by dogs is not due to some emitted scent (as with cancer-sniffing dogs) but rather due to unusually high-frequency EM that pulses more like a static discharge than a steady brain wave in the brain of seizure patients. Capacitance caused by in-vivo coupling of two metals which together act as a capacitor leads to the potential for a discharge of voltage. These micro-capacitors discharge on a cell-by-cell basis, the process always beginning with a single cell. The severity of the epilepsy depends upon the extent of the heavy metal contamination of the brain.

This theory is supported by the fact that strobing lights serve as a trigger for the condition. Changes to perceived brightness in the visual field lead to increased electrical activity at first, but ultimately lead to a partial exhaustion of chemical energy and a reduction in electrical activity. It is a common misconception that seizures are always triggered by strobe as well as that strobe-induced seizures cause a seizure in mere seconds if not instantaneously. In fact, it can take up to a few minutes for a strobe to trigger a resultant seizure. Thus, it is actually the depletion of much of the usual free chemical precursors of electrical generation in the brain that brings about the discharge of the heavy metal contaminant.

Stored electrical energy in the undesired heavy metals is rapidly discharged as a result of positively charged calcium ions being released (part of a natural process of homeostasis) and the formation of a conductive bridge. At first, one cell fires (the metal being embedded within the cells rather than outside) and this leads to detectable high frequency voltage arcing detectable by service animal. This cascade can take seconds or perhaps minutes to become apparent enough to interfere with normal brain activity and bring about unconsciousness or altered functioning.

Unlike normal cell firing, the flow of electrical energy is of a voltage and amperage capable of destroying the membrane of neurons, leading to rupture. With each seizure, more neurons are ruptured, leading to their metallic contaminants being released and migrating to healthy neurons where they are absorbed and the process is repeated.

## Conclusion

Repeated seizure activity is associated with permanent brain damage, memory loss, and increased suicide risk. Identifying the metals responsible and chelating them from the affected brain cells would be a logical focus for treatment moving forward. While heavy metal involvement has been speculated about in the past, never before has this particular chain of causality been promulgated.